

APPENDIX II

Marked-Up Claims

1. A substrate for use [is] in a data storage system, comprising:
at least one [plastic or] plastic composite material exhibiting a modulus of about 350 kpsi or greater;
wherein said [plastic or] plastic composite material [exhibiting a modulus of about 3500 kpsi or greater] is filled with viscoelastic damping particles, anisotropic reinforcing agents, or combinations thereof.
2. The substrate of claim 1 wherein said [plastic or] plastic composite material exhibits a modulus in the range of about 400 to 3,000 kpsi.
3. The substrate of claim 1 wherein said [plastic or] plastic composite material is selected from: polysulfone (PSU), polyethersulfone (PES), polyetherimide (PEI), polyphenylsulfide (PPS), polyphthalamide (PPA), liquid crystal polymer (LCP), polyetheretherketone (PEEK), polycarbonate (PCB) and any combinations thereof.
5. The substrate of claim [5] 1 wherein said anisotropic reinforcing [agent is] agents are selected from carbon fibers, glass fibers, mineral particles and any combinations thereof [;].
7. The substrate of claim [4] 1 wherein the [filler] viscoelastic damping particles, anisotropic reinforcing agents, or combination thereof in the plastic composite material have a concentration in the range of about 5 to 65 weight %.
8. The substrate of claim 1 where said [one or more plastic or] at least one plastic composite material[s] comprises two or more layers of said material[s] and any combination thereof.

9. The substrate of claim 1 further comprising:
said plastic composite material forming a core layer; and
said plastic composite material forming one or more skin layers
formed atop said core layer.
14. A substrate for use in a data storage system, comprising:
at least one core layer made of a plastic or plastic composite
material; and
at least one skin layer made of a plastic or plastic composite
material, and formed atop at least one surface of said core layer, wherein at least
one of said core or skin layers exhibits a modulus of 350 kpsi or greater, and
wherein the plastic or plastic composite material is filled with viscoelastic
damping particles, anisotropic reinforcing agents, or combinations thereof.
16. The substrate of claim 14 wherein [said plastic or plastic composite
material further includes a filler such as a damping agent or a reinforcing agent
and wherein the filler has] the viscoelastic damping particles, anisotropic
reinforcing agents, or combinations thereof in the plastic or plastic composite
material have a concentration in the range of about 5 to 65 weight %.
17. The substrate of claim 16 wherein said anisotropic reinforcing agent is
selected from carbon fibers, glass fibers, mineral particles and any combination
thereof[;].
18. An apparatus, comprising:
a disk drive spindle motor; and
at least one data storage disk mounted on said disk drive spindle
[having means for] wherein said storage disk comprises at least one plastic
composite material exhibiting a modulus of about 350 kpsi or greater, wherein

said plastic composite material is filled with viscoelastic damping particles,
anisotropic reinforcing agents, or combinations thereof.